

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ, 400VAC



Product designation			Power contactor
Product type designation			BF32
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	56
Operational current le			
	AC-1 (≤40°C)	Α	56
	AC-1 (≤55°C)	Α	45
	AC-1 (≤70°C)	Α	40
	AC-3 (≤440V ≤55°C)	A	32
Detect on suction of a success AC 2 /T<5500	AC-4 (400V)	Α	13.5
Rated operational power AC-3 (T≤55°C)	2201/	1.1.0.7	0.0
	230V 400V	kW kW	8.8 16
	400 V 415 V	kW	17
	440V	kW	17
	500V	kW	20
	690V	kW	22
Rated operational power AC-1 (T≤40°C)	0001	1000	
Traise operational perior //o T (T=10 O)	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
·	≤24V	Α	30
	48V	Α	26
	75V	Α	22
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
	≤24V	Α	32
	48V	Α	32
	75V	Α	28
	110V	Α	25
150	220V	Α	3
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			0.0
	≤24V	A	32
	48V	A	32
	75V	A	32
	110V	Α	27



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	220V	Α	23
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
·	≤24V	Α	_
	48V	Α	_
	75V	A	_
	110V	Α	_
	220V		_
IFO	220 V	A	-
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series		_	
	≤24V	Α	20
	48V	Α	17
	75V	Α	15
	110V	Α	2,5
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	25
	48V	Α	22
	75V	Α	20
	110V	A	15
IFO was assemble in DOO DOE will LID 445. Which is not a second of the control of	220V	A	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series		_	
	≤24V	Α	30
	48V	Α	28
	75V	Α	28
	110V	Α	20
	220V	Α	23
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	_
	48V	Α	_
	75V	A	
			_
	110V	A	_
	220V	Α .	
Short-time allowable current for 10s (IEC/EN60947-1)		Α	320
Protection fuse			
	gG (IEC)	Α	63
	aM (IEC)	Α	32
Making capacity (RMS value)		Α	320
Breaking capacity at voltage			
	440V	Α	256
	500V	A	240
	690V	A	192
Desigtance per pale (everage vielve)	090 V		
Resistance per pole (average value)		mΩ	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC-3	W	2
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	lbin	2.2
Tightening torque for coil terminal	HUX		
rightoning torque for contentinal	nain	Nim	Λ Θ
	min	Nm	0.8
	max	Nm	1
	min	lbin	0.8



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		max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section		2	0.5
		min	mm²	2.5 16
	Florible o/w lug conductor section	max	mm²	10
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conductor sect		111111	10
	Tiexible with insulated space tag conductor seet	min	mm²	1
		max	mm²	10
_		max		IP20 when
Power terminal proted	ction according to IEC/EN 60529			properly wired
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail 35mm
Weight			g	428
Conductor section				
	AWG/kcmil conductor section			
		max		6
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	1600000
Safety related data				
Performance level B1	10d according to EN/ISO 13489-1			
		rated load	cycles	1600000
		mechanical load	cycles	20000000
Mirror contats accord				
	ling to IEC/EN 609474-4-1			yes
EMC compatibility	ling to IEC/EN 609474-4-1			yes yes
EMC compatibility AC coil operating				yes
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz		V	
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz		V	yes
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz of 50/60Hz coil powered at 50Hz		V	yes
	50/60Hz	min		yes 400
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz of 50/60Hz coil powered at 50Hz	min	%Us	yes 400 80
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz of 50/60Hz coil powered at 50Hz pick-up	min max		yes 400
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz of 50/60Hz coil powered at 50Hz	max	%Us %Us	yes 400 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	50/60Hz of 50/60Hz coil powered at 50Hz pick-up	max min	%Us %Us %Us	yes 400 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max	%Us %Us	yes 400 80 110
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min	%Us %Us %Us	yes 400 80 110 20
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up	max min max	%Us %Us %Us %Us	yes 400 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	yes 400 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us %Us	yes 400 80 110 20 55
EMC compatibility AC coil operating Rated AC voltage at 5	of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us %Us	yes 400 80 110 20 55

of 50/60Hz coil powered at 50Hz





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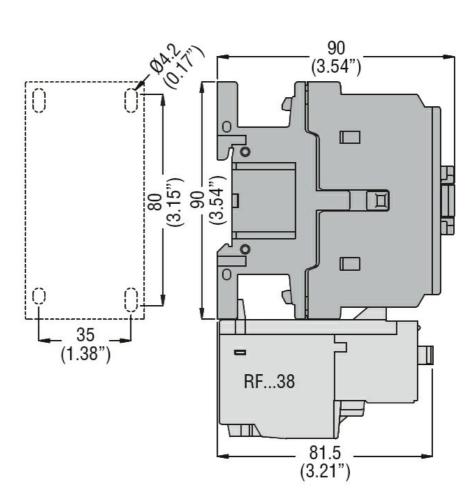
		in-rush	VA	75
		holding	VA	9
	of 50/60Hz coil powered at 60Hz			
	0. 00,00 <u> </u>	in-rush	VA	70
		holding	VA	6.5
	of 60Hz coil powered at 60Hz	riolaling	VA	0.0
	or our iz con powered at our iz	in-rush	VA	75
Disabation of baldings	<00°0 FOLI-	holding	VA	9
Dissipation at holding			W	2.5
Max cycles frequency				222
Mechanical operation			cycles/h	3600
Operating times				
Average time for Us of				
	in AC			
	Closing NO			
		min	ms	8
		max	ms	24
	Opening NO			
		min	ms	5
		max	ms	15
	Closing NC			
	one and	min	ms	9
		max	ms	20
	Opening NC	max	1110	20
	Opening NC	min	ms	9
				17
UL technical data		max	ms	17
) for three-phase AC motor			
ruii-ioau curient (FLA)) for three-phase AC motor	at 480V	٨	27
			A	27
VC 11 1 1 1 1		at 600V	Α	27
Yielded mechanical pe				
	for single-phase AC motor			_
		110/120V	HP	3
		230V	HP	7.5
	for three-phase AC motor			
		200/208V	HP	10
		220/230V	HP	10
		460/480V	HP	20
		575/600V	HP	25
General USE				
	Contactor			
		AC current	Α	55
Short-circuit protection	n fuse. 600V	canon		-
and another protoction	High fault			
		Short circuit current	kA	100
		Fuse rating	A	100
		_	^	
	Ctore doved for alt	Fuse class		J
	Standard fault			_
		Short circuit current	kA	5
		Fuse rating	Α	125
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50



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	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimensions			

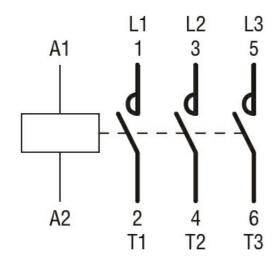
7.9 (0.31") 45 (0.57") 44.6 (0.57") 7.9 (0.31") 44.6 (0.57")



Wiring diagrams

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 32A, AC COIL 50/60HZ,



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching